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cont.

the circuit input terminal 51 and a diode-connected transistor Q60 having an emitter electrode connected to each of emitter electrodes of the transistors Q56 to Q59. A current source 62A is connected between a common emitter connection point of the transistors Q56 to Q60 and the GND line 54.

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IN THE CLAIMS: ✓

Please cancel Claims 4 and 6 without prejudice or disclaimer of the subject matter contained therein.

Please rewrite Claims 1, 2, 3, 5, 7, 8 and 9 as set forth below in clean form. Additionally, in accordance with 37 CFR 1.121 (c) (1) (ii), amended Claims 1, 2, 3, 5, 7, 8 and 9 are set forth in a Marked-Up Version in the pages attached to this amendment.

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1. A filter circuit comprising:

a first differential circuit formed by a combination of one transistor, and four diodes connected in parallel with each other and each having one electrode connected to a first electrode of said one transistor, a first current corresponding to an input signal flowing through said four diodes;

a second differential circuit formed by a combination of one diode, and four transistors connected in parallel with each other and each having a first electrode connected to one electrode of said one diode, a second current corresponding to the input signal flowing through said one diode;

a current source connected to a common connection point of said four diodes and said one diode; and

a first capacitor through which a current determined by a current of said current source, said first current, and said second current flows,

wherein a first series connection circuit formed by connecting a plurality of said first differential circuits in series with each other is connected in parallel with a second series connection circuit formed by connecting a number of said second differential circuits in series with each other, the number of said second differential circuits being identical with that of said first differential circuits of said first series connection circuit, between a circuit input terminal and a circuit output terminal.

2. A filter circuit as claimed in claim 1, wherein the plurality of said first differential circuits are connected in series with each other and the plurality of said second differential circuits are connected in series with each other between a first power supply and a second power supply.

3. A filter circuit as claimed in claim 1, wherein a plurality of said first differential circuits are connected in series with each other between a circuit input terminal and a circuit output terminal; and said second differential circuit is connected in parallel with at least one of said first differential circuits.

5. A filter circuit as claimed in claim 1, wherein a control electrode of said one transistor and control electrodes of said four transistors are connected to a first circuit input terminal, and the common connection point

of said four diodes and said one diode is connected to a first circuit output terminal; and

one terminal of said first capacitor is connected to said first circuit output terminal.

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7. A filter circuit as claimed in claim 1,  
wherein a control electrode of said one transistor and control electrodes of said four transistors are connected to a direct-current power supply, and the common connection point of said four diodes and said one diode is connected to a first circuit output terminal; and

said first capacitor is connected between a first circuit input terminal and said first circuit output terminal.

8. A filter circuit as claimed in claim 7,  
wherein said first differential circuit, said second differential circuit, and said current source are further provided between said direct-current power supply and a second circuit output terminal; and  
a second capacitor is connected between a second circuit input terminal and said second circuit output terminal.

9. A filter circuit as claimed in claim 1,  
wherein a control electrode of said one transistor and control electrodes of said four transistors are connected to a first circuit input terminal, the common connection point of said four diodes and said one diode is connected to a second circuit output terminal, and said first differential circuit, said second differential circuit, and said current source are provided also between a second circuit input terminal and a first circuit output terminal; and

said first capacitor is connected between said first